

## AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1           1. (Original) A computer-implemented method for reconciling a first  
2 transaction in a first list with a combination of at least two transactions in a second  
3 list, each transaction having a value, the method comprising:  
4           obtaining the first transaction;  
5           obtaining the second list of transactions;  
6           determining whether the value of the first transaction corresponds to a  
7           combination of the values of a subset of transactions in the second list; and  
8           responsive to the value corresponding to the combination of values,  
9           indicating a match between the first transaction and the subset of  
10          transactions.

1           2. (Original) The method of claim 1, wherein each transaction comprises one  
2 selected from the group consisting of an investment transaction, a financial  
3 transaction, and an accounting transaction.

1           3. (Original) The method of claim 1, wherein determining whether the value  
2 of the first transaction corresponds to a combination of the values of a subset of  
3 transactions in the second list comprises determining whether the value of the first

4 transaction corresponds to a sum of the values of a subset of transactions in the  
5 second list.

1 4. (Original) The method of claim 1, wherein at least one of the steps of  
2 obtaining the first transaction and obtaining the second list comprises downloading  
3 transactions from a remote server.

1 5. (Original) The method of claim 1, wherein at least one of the steps of  
2 obtaining the first list and obtaining the second list comprises retrieving transactions  
3 from a storage device.

1 6. (Currently Amended) ~~The method of claim 1, further comprising: A~~  
2 computer-implemented method for reconciling a first transaction in a first list with a  
3 combination of at least two transactions in a second list, each transaction having a  
4 value, the method comprising:

5 obtaining the first transaction;

6 obtaining the second list of transactions;

7 determining whether the value of the first transaction corresponds to a value  
8 of a transaction in the second list;

9 responsive to the value of the first transaction corresponding to the value of a  
10 transaction in the second list, indicating a match between the first  
11 transaction and the transaction having the corresponding value; and

responsive to the value of the first transaction not corresponding to the value  
of a transaction in the second list:  
~~wherein the step of determining whether the value of the first transaction~~  
~~corresponds to a combination of the values of a subset of transactions~~  
~~in the second list is performed responsive to the value of the first~~  
~~transaction not corresponding to the value of a transaction in the~~  
~~second list; and~~  
responsive to the value corresponding to the combination of values,  
indicating a match between the first transaction and the subset of  
transactions.

7. (Currently Amended) The method of claim [[1]]6, wherein each transaction  
has a date, and wherein obtaining the second list comprises obtaining a list of  
transactions having dates identical to the date of the first transaction.

8. (Currently Amended) The method of claim [[1]]6, wherein each  
transaction has a date, and wherein obtaining the second list comprises obtaining a  
list of transactions having dates within a specified time period of the date of the first  
transaction.

9. (Original) The method of claim 8, further comprising, responsive to the  
value of the first transaction not corresponding to a combination of the values of a  
subset of transactions in the second list:

modifying the specified time period; and

5 repeating the steps of obtaining the second list, determining whether the  
6 value of the first transaction corresponds to a combination of the values of  
7 a subset of transactions in the second list, and, responsive to the value  
8 corresponding to the combination of values, indicating a match between  
9 the first transaction and the subset of transactions.

1 10. (Original) The method of claim 1, wherein determining whether the value  
2 of the first transaction corresponds to a combination of the values of a subset of  
3 transactions in the second list comprises performing a recursive submethod using a  
4 first input parameter including the value of the first transaction and a second input  
5 parameter including the set of transactions in the second list.

1 11. (Previously presented) The method of claim 10, wherein performing the  
2 recursive submethod comprises:  
3 responsive to one of the values of a transaction in the second input parameter  
4 equaling the first input parameter, returning a transaction list including  
5 the transaction having the equal value;  
6 responsive to none of the values of transactions in the second input  
7 parameter equaling the first input parameter, and the second parameter  
8 containing only one transaction, returning an indicator that no match was  
9 found;  
10 responsive to none of the values of transactions in the second input  
11 parameter equaling the first input parameter, and the second parameter

12 containing more than one transaction, performing the recursive  
13 submethod using a modified first input parameter and a modified second  
14 input parameter, the modified second input parameter omitting a selected  
15 transaction and the modified first input parameter being obtained by  
16 subtracting the value of the selected transaction from the first input  
17 parameter.

1 12. (Original) The method of claim 10, wherein performing the recursive  
2 submethod comprises:  
3 responsive to one of the values of a transaction in the second input parameter  
4 equaling the first input parameter, returning a transaction list including  
5 the transaction having the equal value;  
6 responsive to none of the values of transactions in the second input  
7 parameter equaling the first input parameter, and the second parameter  
8 containing only one transaction, returning an indicator that no match was  
9 found;  
10 responsive to none of the values of transactions in the second input  
11 parameter equaling the first input parameter, and the second parameter  
12 containing more than one transaction, performing the steps of:  
13 a) selecting a transaction in the second input parameter;  
14 b) subtracting the value of the selected transaction from the first  
15 input parameter to obtain a modified first input parameter;

16 c) generating a modified set of transactions including all  
17 transactions in the second input parameter except the selected  
18 transaction;  
19 d) performing the recursive submethod using a first input  
20 parameter including the modified first input parameter and a  
21 second input parameter including the modified set of  
22 transactions;  
23 e) responsive to the recursive submethod returning a transaction  
24 list, adding the selected transaction to the returned list to  
25 generate a modified transaction list, and returning the modified  
26 transaction list;  
27 f) responsive to the recursive submethod returning an indicator  
28 that no match was found, performing the steps of:  
29 responsive to any transactions remaining in the  
30 second input parameter, repeating steps a)  
31 through f); and  
32 responsive to no transactions remaining in the  
33 second input parameter, returning an indicator  
34 that no match was found.

1 13. (Original) The method of claim 1, further comprising repeating the  
2 obtaining, determining, and indicating steps for a second transaction in the first list.

1           14. (Original) A computer-implemented method for reconciling a first  
2 combination of at least two transactions in a first list with a second combination of at  
3 least two transactions in a second list, each transaction having a value, the method  
4 comprising:

5           obtaining each transaction in the first combination;

6           combining the obtained transactions to generate a first value;

7           obtaining the second list of transactions;

8           determining whether the first value corresponds to a combination of the

9           values of a subset of transactions in the second list; and

10          responsive to the first value corresponding to the combination of values,

11          indicating a match between the first combination and the subset of

12          transactions.

1           15. (Original) A computer-implemented method for matching a first value  
2 with a combination of at least two values in a list of values, the method comprising:

3           obtaining the first value;

4           obtaining the second list of values;

5           performing a submethod, using a first input parameter including the first

6           value and a second input parameter including the second list of values, to

7           determine whether the first value corresponds to a combination of values

8           from the second list; and

9 responsive to the first value corresponding to the combination of values,  
10 indicating a match for the first value.

1 16. (Previously presented) The method of claim 15, wherein the submethod is  
2 recursive, and wherein performing the recursive submethod comprises:

3 responsive to one of the values in the second input parameter equaling the

4 first input parameter, returning a value list including the equal value;

5 responsive to none of the values in the second input parameter equaling the

6 first input parameter, and the second parameter containing only one

7 value, returning an indicator that no match was found;

8 responsive to none of the values in the second input parameter equaling the

9 first input parameter, and the second parameter containing more than one

10 value, performing the recursive submethod using a modified first input

11 parameter and a modified second input parameter, the modified second

12 input parameter omitting a selected value and the modified first input

13 parameter being obtained by subtracting the selected value from the first

14 input parameter.

1 17. (Original) The method of claim 15, wherein the submethod is recursive,  
2 and wherein performing the recursive submethod comprises:

3 responsive to one of the values in the second input parameter equaling the

4 first input parameter, returning a value list including the equal value;



responsive to none of the values in the second input parameter equaling the first input parameter, and the second parameter containing only one value, returning an indicator that no match was found;

responsive to none of the values in the second input parameter equaling the first input parameter, and the second parameter containing more than one value, performing the steps of:

- a) selecting a value in the second input parameter;
- b) subtracting the selected value from the first input parameter to obtain a modified first input parameter;
- c) generating a modified value list including all values in the second input parameter except the selected value;
- d) performing the recursive submethod using a first input parameter including the modified first input parameter and a second input parameter including the modified value list;
- e) responsive to the recursive submethod returning a value list, adding the selected value to the returned list to generate a modified value list, and returning the modified value list;
- f) responsive to the recursive submethod returning an indicator that no match was found, performing the steps of:
  - responsive to any values remaining in the second input parameter, repeating steps a) through f);
  - and

27 responsive to no values remaining in the second  
28 input parameter, returning an indicator that no  
29 match was found.

1 18. (Original) The method of claim 15, wherein each value is associated with  
2 a transaction.

1 19. (Original) The method of claim 15, wherein the submethod determines  
2 whether the first value corresponds to a combination of values from the second list.

1 20. (Original) A computer-implemented method for matching a first  
2 combination of at least two values with a second combination of at least two values  
3 in a list of values, the method comprising:  
4 obtaining each value in the first combination;  
5 combining the obtained values to generate a first combined value;  
6 obtaining the second list of values;  
7 performing a recursive submethod, using a first input parameter including  
8 the first combined value and a second input parameter including the  
9 second list of values, to determine whether the first combined value  
10 corresponds to a second combination of values from the second list; and  
11 responsive to the first combined value corresponding to the second  
12 combination of values, indicating a match for each value in the first  
13 combination.

1        21. (Original) A computer program product comprising a computer-usable  
2 medium having computer-readable code embodied therein for reconciling a first  
3 transaction in a first list with a combination of at least two transactions in a second  
4 list, each transaction having a value, comprising:

5            computer-readable program code devices configured to cause a computer to  
6            obtain the first transaction;

7            computer-readable program code devices configured to cause a computer to  
8            obtain the second list of transactions;

9            computer-readable program code devices configured to cause a computer to  
10           determine whether the value of the first transaction corresponds to a

11           combination of the values of a subset of transactions in the second list; and

12           computer-readable program code devices configured to cause a computer to,  
13           responsive to the value corresponding to the combination of values,  
14           indicate a match between the first transaction and the subset of  
15           transactions.

1        22. (Original) The computer program product of claim 21, wherein each  
2 transaction comprises one selected from the group consisting of an investment  
3 transaction, a financial transaction, and an accounting transaction.

1        23. (Original) The computer program product of claim 21, wherein the  
2 computer-readable program code devices configured to cause a computer to

3 determine whether the value of the first transaction corresponds to a combination of  
4 the values of a subset of transactions in the second list comprise computer-readable  
5 program code devices configured to cause a computer to determine whether the  
6 value of the first transaction corresponds to a sum of the values of a subset of  
7 transactions in the second list.

1 24. (Original) The computer program product of claim 21, wherein at least  
2 one of the computer-readable program code devices configured to cause a computer  
3 to obtain the first transaction and the computer-readable program code devices  
4 configured to cause a computer to obtain the second list comprises computer-  
5 readable program code devices configured to cause a computer to download  
6 transactions from a remote server.

1 25. (Original) The computer program product of claim 21, wherein at least  
2 one of the computer-readable program code devices configured to cause a computer  
3 to obtain the first transaction and the computer-readable program code devices  
4 configured to cause a computer to obtain the second list comprises computer-  
5 readable program code devices configured to cause a computer to retrieve  
6 transactions from a storage device.

1 26. (Currently Amended) ~~The computer program product of claim 21, further~~  
2 ~~comprising:~~

3        A computer program product comprising a computer-usable medium having  
4        computer-readable code embodied therein for reconciling a first transaction in a first  
5        list with a combination of at least two transactions in a second list, each transaction  
6        having a value, comprising:

7        computer-readable program code devices configured to cause a computer to  
8        obtain the first transaction;

9        computer-readable program code devices configured to cause a computer to  
10       obtain the second list of transactions;

11       computer-readable program code devices configured to cause a computer to  
12       determine whether the value of the first transaction corresponds to a value  
13       of a transaction in the second list; and

14       computer-readable program code devices configured to cause a computer to,  
15       responsive to the value of the first transaction corresponding to the value  
16       of a transaction in the second list, indicate a match between the first  
17       transaction and the transaction having the corresponding value; and

18       computer-readable program code devices configured to cause a computer to,  
19       responsive to the value of the first transaction not corresponding to the  
20       value of a transaction in the second list:

21       ~~wherein the computer-readable program code devices configured to cause a~~  
22       ~~computer to determine whether the value of the first transaction~~  
23       ~~corresponds to a combination of the values of a subset of transactions in~~  
24       ~~the second list are configured to operate responsive to the value of the first~~

25 ~~transaction not corresponding to the value of a transaction in the second~~  
26 ~~list;~~ and  
27 computer-readable program code devices configured to cause a computer to,  
28 responsive to the value of the first transaction corresponding to the  
29 combination of values, indicate a match between the first transaction and  
30 the subset of transactions.

31 27. (Currently Amended) The computer program product of claim ~~[[21]]~~26,  
32 wherein each transaction has a date, and wherein the computer-readable program  
33 code devices configured to cause a computer to obtain the second list comprise  
34 computer-readable program code devices configured to cause a computer to obtain  
35 a list of transactions having dates identical to the date of the first transaction.

1 28. (Currently Amended) The computer program product of claim ~~[[21]]~~26,  
2 wherein each transaction has a date, and wherein the computer-readable program  
3 code devices configured to cause a computer to obtain the second list comprise  
4 computer-readable program code devices configured to cause a computer to obtain  
5 a list of transactions having dates within a specified time period of the date of the  
6 first transaction.

1 29. (Original) The computer program product of claim 28, further comprising  
2 computer-readable program code devices configured to cause a computer to,

3 responsive to the value of the first transaction not corresponding to a combination of  
4 the values of a subset of transactions in the second list:

5 modify the specified time period; and

6 repeat the steps of obtaining the second list, determine whether the value of  
7 the first transaction corresponds to a combination of the values of a subset  
8 of transactions in the second list, and, responsive to the value  
9 corresponding to the combination of values, indicate a match between the  
10 first transaction and the subset of transactions.

1 30. (Original) The computer program product of claim 21, wherein the  
2 computer-readable program code devices configured to cause a computer to  
3 determine whether the value of the first transaction corresponds to a combination of  
4 the values of a subset of transactions in the second list comprise computer-readable  
5 program code devices configured to cause a computer to perform a recursive  
6 submethod using a first input parameter including the value of the first transaction  
7 and a second input parameter including the set of transactions in the second list.

1 31. (Previously presented) The computer program product of claim 30,  
2 wherein the computer-readable program code devices configured to cause a com-  
3 puter to perform the recursive submethod comprise computer-readable program  
4 code devices configured to cause a computer to:

responsive to one of the values of a transaction in the second input parameter  
equaling the first input parameter, return a transaction list including the  
transaction having the equal value;

responsive to none of the values of transactions in the second input  
parameter equaling the first input parameter, and the second parameter  
containing only one transaction, return an indicator that no match was  
found;

responsive to none of the values of transactions in the second input  
parameter equaling the first input parameter, and the second parameter  
containing more than one transaction, perform the recursive submethod  
using a modified first input parameter and a modified second input  
parameter, the modified second input parameter omitting a selected  
transaction and the modified first input parameter being obtained by  
subtracting the value of the selected transaction from the first input  
parameter.

32. (Original) The computer program product of claim 30, wherein the  
computer-readable program code devices configured to cause a computer to  
perform the recursive submethod comprise computer-readable program code  
devices configured to cause a computer to:

responsive to one of the values of a transaction in the second input parameter  
equaling the first input parameter, return a transaction list including the  
transaction having the equal value;



8 responsive to none of the values of transactions in the second input  
9 parameter equaling the first input parameter, and the second parameter  
10 containing only one transaction, return an indicator that no match was  
11 found;

12 responsive to none of the values of transactions in the second input  
13 parameter equaling the first input parameter, and the second parameter  
14 containing more than one transaction, perform the steps of:

- 15 a) selecting a transaction in the second input parameter;
- 16 b) subtracting the value of the selected transaction from the first  
17 input parameter to obtain a modified first input parameter;
- 18 c) generating a modified set of transactions including all  
19 transactions in the second input parameter except the selected  
20 transaction;
- 21 d) performing the recursive submethod using a first input  
22 parameter including the modified first input parameter and a  
23 second input parameter including the modified set of  
24 transactions;
- 25 e) responsive to the recursive submethod returning a transaction  
26 list, adding the selected transaction to the returned list to  
27 generate a modified transaction list, and returning the modified  
28 transaction list;

29 f) responsive to the recursive submethod returning an indicator

30 that no match was found, performing the steps of:

31 responsive to any transactions remaining in the

32 second input parameter, repeating steps a)

33 through f); and

34 responsive to no transactions remaining in the

35 second input parameter, returning an indicator

36 that no match was found.

1 33. (Original) A computer program product comprising a computer-usable  
2 medium having computer-readable code embodied therein for reconciling a first  
3 combination of at least two transactions in a first list with a second combination of at  
4 least two transactions in a second list, each transaction having a value, the computer  
5 program product comprising:

6 computer-readable program code devices configured to cause a computer to  
7 obtain each transaction in the first combination;

8 computer-readable program code devices configured to cause a computer to  
9 combine the obtained transactions to generate a first value;

10 computer-readable program code devices configured to cause a computer to  
11 obtain the second list of transactions;

12 computer-readable program code devices configured to cause a computer to  
13 determine whether the first value corresponds to a combination of the  
14 values of a subset of transactions in the second list; and

15 computer-readable program code devices configured to cause a computer to,  
16 responsive to the first value corresponding to the combination of values,  
17 indicate a match between the first combination and the subset of  
18 transactions.

1 34. (Original) A computer program product comprising a computer-usable  
2 medium having computer-readable code embodied therein for matching a first  
3 value with a combination of at least two values in a list of values, the computer  
4 program product comprising:

5 computer-readable program code devices configured to cause a computer to  
6 obtain the first value;

7 computer-readable program code devices configured to cause a computer to  
8 obtain the second list of values;

9 computer-readable program code devices configured to cause a computer to  
10 perform a submethod, using a first input parameter including the first  
11 value and a second input parameter including the second list of values, to  
12 determine whether the first value corresponds to a combination of values  
13 from the second list; and

14 computer-readable program code devices configured to cause a computer to,  
15 responsive to the first value corresponding to the combination of values,  
16 indicate a match for the first value.

1           35. (Previously presented) The computer program product of claim 34,  
2 wherein the submethod is recursive, and wherein the computer-readable program  
3 code devices configured to cause a computer to perform the recursive submethod  
4 comprise computer-readable program code devices configured to cause a computer  
5 to:

6           responsive to one of the values in the second input parameter equaling the

7           first input parameter, return a value list including the equal value;

8           responsive to none of the values in the second input parameter equaling the

9           first input parameter, and the second parameter containing only one

10          value, return an indicator that no match was found;

11          responsive to none of the values in the second input parameter equaling the

12          first input parameter, and the second parameter containing more than one

13          value, perform the recursive submethod using a modified first input

14          parameter and a modified second input parameter, the modified second

15          input parameter omitting a selected value and the modified first input

16          parameter being obtained by subtracting the selected value from the first

17          input parameter.

1           36. (Original) The computer program product of claim 34, wherein the  
2 submethod is recursive, and wherein the computer-readable program code devices  
3 configured to cause a computer to perform the recursive submethod comprise  
4 computer-readable program code devices configured to cause a computer to:

responsive to one of the values in the second input parameter equaling the first input parameter, return a value list including the equal value;

responsive to none of the values in the second input parameter equaling the first input parameter, and the second parameter containing only one value, return an indicator that no match was found;

responsive to none of the values in the second input parameter equaling the first input parameter, and the second parameter containing more than one value, perform the steps of:

- a) selecting a value in the second input parameter;
- b) subtracting the selected value from the first input parameter to obtain a modified first input parameter;
- c) generating a modified value list including all values in the second input parameter except the selected value;
- d) performing the recursive submethod using a first input parameter including the modified first input parameter and a second input parameter including the modified value list;
- e) responsive to the recursive submethod returning a value list, adding the selected value to the returned list to generate a modified value list, and returning the modified value list;
- f) responsive to the recursive submethod returning an indicator that no match was found, performing the steps of:

26 responsive to any values remaining in the second  
27 input parameter, repeating steps a) through f);  
28 and  
29 responsive to no values remaining in the second  
30 input parameter, returning an indicator that no  
31 match was found.

1 37. (Original) The computer program product of claim 34, wherein each  
2 value is associated with a transaction.

1 38. (Original) The computer program product of claim 34, wherein the  
2 computer-readable program code devices configured to cause a computer to  
3 perform the submethod further comprise computer-readable program code devices  
4 configured to cause a computer to determine whether the first value corresponds to  
5 a combination of values from the second list.

1 39. (Original) A computer program product comprising a computer-usable  
2 medium having computer-readable code embodied therein for matching a first  
3 combination of at least two values with a second combination of at least two values  
4 in a list of values, the computer program product comprising:  
5 computer-readable program code devices configured to cause a computer to  
6 obtain each value in the first combination;

7 computer-readable program code devices configured to cause a computer to  
8 combine the obtained values to generate a first combined value;  
9 computer-readable program code devices configured to cause a computer to  
10 obtain the second list of values;  
11 computer-readable program code devices configured to cause a computer to  
12 perform a recursive submethod, using a first input parameter including  
13 the first combined value and a second input parameter including the  
14 second list of values, to determine whether the first combined value  
15 corresponds to a second combination of values from the second list; and  
16 computer-readable program code devices configured to cause a computer to,  
17 responsive to the first combined value corresponding to the second  
18 combination of values, indicate a match for each value in the first  
19 combination.

1 40. (Original) A system for reconciling a first transaction in a first list with a  
2 combination of at least two transactions in a second list, each transaction having a  
3 value, the system comprising:  
4 a first input device, for obtaining the first transaction;  
5 a second input device, for obtaining the second list of transactions;  
6 coupled to the first and second input devices, a memory for storing the first  
7 transaction and the second list;

8 coupled to the memory, a match determination module for determining  
9 whether the value of the first transaction corresponds to a combination of  
10 the values of a subset of transactions in the second list; and  
11 coupled to the match determination module, a match indication module for,  
12 responsive to the value corresponding to the combination of values,  
13 indicating a match between the first transaction and the subset of  
14 transactions.

1 41. (Original) The system of claim 40, wherein each transaction comprises  
2 one selected from the group consisting of an investment transaction, a personal  
3 financial transaction, and an accounting transaction.

1 42. (Original) The system of claim 40, wherein the match determination  
2 module determines whether the value of the first transaction corresponds to a sum  
3 of the values of a subset of transactions in the second list.

1 43. (Currently Amended) ~~The system of claim 40, further comprising: A~~  
2 system for reconciling a first transaction in a first list with a combination of at least  
3 two transactions in a second list, each transaction having a value, the system  
4 comprising:  
5 a first input device, for obtaining the first transaction;  
6 a second input device, for obtaining the second list of transactions;



7 coupled to the first and second input devices, a memory for storing the first  
8 transaction and the second list;

9 coupled to the memory, a transaction matching device for determining  
10 whether the value of the first transaction corresponds to a value of a  
11 transaction in the second list;

12 ~~wherein~~ coupled to the transaction matching device, a the match indication  
13 module for indicating, responsive to the value of the first transaction  
14 corresponding to the value of a transaction in the second list, ~~indicates~~ a  
15 match between the first transaction and the transaction having the  
16 corresponding value;

17 coupled to the memory, and wherein the a match determination module for  
18 determining, responsive to the value of the first transaction not  
19 corresponding to the value of a transaction in the second list, determines  
20 whether the value of the first transaction corresponds to a combination of  
21 the values of a subset of transactions in the second list ~~responsive to the~~  
22 ~~value of the first transaction not corresponding to the value of a~~  
23 ~~transaction in the second list; and~~

24 wherein the match indication module indicates, responsive to the value  
25 corresponding to the combination of values, a match between the first  
26 transaction and the subset of transactions.

1           44. (Currently Amended) The system of claim ~~[[40]]~~43, wherein each  
2     transaction has a date, and wherein the second input device obtains a list of  
3     transactions having dates identical to the date of the first transaction.

1           45. (Currently Amended) The system of claim ~~[[40]]~~43, wherein each  
2     transaction has a date, and wherein the second input device obtains a list of  
3     transactions having dates within a specified time period of the date of the first  
4     transaction.

1           46. (Original) The system of claim 40, wherein the match determination  
2     module performs a recursive submethod using a first input parameter including the  
3     value of the first transaction and a second input parameter including the set of  
4     transactions in the second list.

1           47. (Previously presented) The system of claim 46, wherein the recursive  
2     submethod comprises:  
3             responsive to one of the values of a transaction in the second input parameter  
4             equaling the first input parameter, returning a transaction list including  
5             the transaction having the equal value;  
6             responsive to none of the values of transactions in the second input  
7             parameter equaling the first input parameter, and the second parameter  
8             containing only one transaction, returning an indicator that no match was  
9             found;

responsive to none of the values of transactions in the second input parameter equaling the first input parameter, and the second parameter containing more than one transaction, performing the recursive submethod using a modified first input parameter and a modified second input parameter, the modified second input parameter omitting a selected transaction and the modified first input parameter being obtained by subtracting the value of the selected transaction from the first input parameter.

48. (Original) The system of claim 46, wherein the recursive submethod comprises:

responsive to one of the values of a transaction in the second input parameter equaling the first input parameter, returning a transaction list including the transaction having the equal value;

responsive to none of the values of transactions in the second input parameter equaling the first input parameter, and the second parameter containing only one transaction, returning an indicator that no match was found;

responsive to none of the values of transactions in the second input parameter equaling the first input parameter, and the second parameter containing more than one transaction, performing the steps of:

a) selecting a transaction in the second input parameter;

14                   b) subtracting the value of the selected transaction from the first  
15                   input parameter to obtain a modified first input parameter;  
16                   c) generating a modified set of transactions including all  
17                   transactions in the second input parameter except the selected  
18                   transaction;  
19                   d) performing the recursive submethod using a first input  
20                   parameter including the modified first input parameter and a  
21                   second input parameter including the modified set of  
22                   transactions;  
23                   e) responsive to the recursive submethod returning a transaction  
24                   list, adding the selected transaction to the returned list to  
25                   generate a modified transaction list, and returning the modified  
26                   transaction list;  
27                   f) responsive to the recursive submethod returning an indicator  
28                   that no match was found, performing the steps of:  
29                               responsive to any transactions remaining in the  
30                               second input parameter, repeating steps a)  
31                               through f); and  
32                               responsive to no transactions remaining in the  
33                               second input parameter, returning an indicator  
34                               that no match was found.

1           49. (Original) A system for reconciling a first combination of at least two  
2 transactions in a first list with a second combination of at least two transactions in a  
3 second list, each transaction having a value, the system comprising:  
4           a first input device, for obtaining each transaction in the first combination;  
5           coupled to the first input device, a combination module, for combining the  
6           obtained transactions to generate a first value;  
7           a second input device, for obtaining the second list of transactions;  
8           coupled to the combination module and the second input devices, a memory  
9           for storing the first value and the second list;  
10          coupled to the memory, a match determination module for determining  
11          whether the first value corresponds to a combination of the values of a  
12          subset of transactions in the second list; and  
13          coupled to the match determination module, a match indication module for,  
14          responsive to the first value corresponding to the combination of values,  
15          indicating a match between the first combination and the subset of  
16          transactions.

1           50. (Original) A system for matching a first value with a combination of at  
2 least two values in a list of values, the system comprising:  
3           a first input device, for obtaining the first value;  
4           a second input device, for obtaining the second list of values;

5 coupled to the input devices, a memory for storing the first value and the  
6 second list;  
7 coupled to the memory, a recursive function module, for performing a  
8 recursive function, using a first input parameter including the first value  
9 and a second input parameter including the second list of values, to  
10 determine whether the first value corresponds to a combination of values  
11 from the second list; and  
12 coupled to the recursive function module, a match indicator for, responsive to  
13 the first value corresponding to the combination of values, indicating a  
14 match for the first value.

1 51. (Previously presented) The system of claim 50, wherein the recursive  
2 function module:  
3 responsive to one of the values in the second input parameter equaling the  
4 first input parameter, returns a value list including the equal value;  
5 responsive to none of the values in the second input parameter equaling the  
6 first input parameter, and the second parameter containing only one  
7 value, returns an indicator that no match was found;  
8 responsive to none of the values in the second input parameter equaling the  
9 first input parameter, and the second parameter containing more than one  
10 value, performs the recursive submethod using a modified first input  
11 parameter and a modified second input parameter, the modified second  
12 input parameter omitting a selected value and the modified first input

parameter being obtained by subtracting the selected value from the first input parameter.

52. (Original) The system of claim 50, wherein the recursive function module: responsive to one of the values in the second input parameter equaling the first input parameter, returns a value list including the equal value; responsive to none of the values in the second input parameter equaling the first input parameter, and the second parameter containing only one value, returns an indicator that no match was found; responsive to none of the values in the second input parameter equaling the first input parameter, and the second parameter containing more than one value, performs the steps of:

- a) selecting a value in the second input parameter;
- b) subtracting the selected value from the first input parameter to obtain a modified first input parameter;
- c) generating a modified value list including all values in the second input parameter except the selected value;
- d) performing the recursive submethod using a first input parameter including the modified first input parameter and a second input parameter including the modified value list;
- e) responsive to the recursive submethod returning a value list, adding the selected value to the returned list to generate a modified value list, and returning the modified value list;

21 f) responsive to the recursive submethod returning an indicator  
22 that no match was found, performing the steps of:  
23 responsive to any values remaining in the second  
24 input parameter, repeating steps a) through f);  
25 and  
26 responsive to no values remaining in the second  
27 input parameter, returning an indicator that no  
28 match was found.

1 53. (Original) The system of claim 50, wherein each value is associated with a  
2 transaction.

1 54. (Original) A system for matching a first combination of at least two  
2 values with a second combination of at least two values in a list of values, the system  
3 comprising:  
4 a first input device, for obtaining each value in the first combination;  
5 coupled to the first input device, a combination module, for combining the  
6 obtained values to generate a first combined value;  
7 a second input device, for obtaining the second list of values;  
8 coupled to the combination module and the second input devices, a memory  
9 for storing the first value and the second list;  
10 coupled to the memory, a recursive function module, for performing a  
11 recursive function, using a first input parameter including the first



12 combined value and a second input parameter including the second list of  
13 values, to determine whether the first combined value corresponds to a  
14 second combination of values from the second list; and  
15 coupled to the recursive function module, a match indicator for, responsive to  
16 the first combined value corresponding to the second combination of  
17 values, indicating a match for each value in the first combination.